DOCUMENT RESUME

ED 223 451 SE 039 617

AUTHOR Canipe, Steven L.
TITLE Groucho: An Energy Conservation Computer Game.
PUB DATE 82
NOTE 28p.
PUB TYPE Guides - Classroom Use - Guides (For Teachers) (052)

EDRS PRICE MF01/PC02 Plus Postage.
DESCRIPTORS *Computer Programs; *Conservation Education; Educational Games; Elementary Education; *Energy; *Energy Conservation; Junior High Schools; *Microcomputers
IDENTIFIERS Apple II; Computer Games; *Energy Education

ABSTRACT

Groucho is a computer game designed to teach energy conservation concepts to upper elementary and junior high school students. The game is written in Applesoft Basic for the Apple II microcomputer. A complete listing of the program is provided. The game utilizes low resolution graphics to reward students for correct answers to 10 questions presented. Teachers may wish to include their own questions within the program and use the graphics as positive reinforcement for correct answers. The game keeps a running tally of the number of questions answered correctly on the first try. Students have the opportunity to retry any question missed until they get the correct answer or wish to leave the program. The program is termed "user friendly" because from the time the program is loaded into the computer the instructions are clearly printed on the video screen. The user need only respond to instructions to be successful in using the program. Once the entire set of questions has been asked and answered, the student is presented with a maze-type conclusion in which it is necessary to get to the dot to end. (Author/JN)

****
* Reproductions supplied by EDRS are the best that can be made *
* from the original document. *
****

ED223451

U.S. DEPARTMENT OF EDUCATION
NATIONAL INSTITUTE OF EDUCATION
EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)

✓ This document has been reproduced as received from the person or organization originating it.
Minor changes have been made to improve reproduction quality.

• Points of view or opinions stated in this document do not necessarily represent official NIE position or policy.

GROUCHO: AN ENERGY CONSERVATION COMPUTER GAME

Stephen L. Canipe
Charlotte, NC
(704) 373-4530

1982

"PERMISSION TO REPRODUCE THIS MATERIAL HAS BEEN GRANTED BY
Stephen L. Canipe

TO THE EDUCATIONAL RESOURCES INFORMATION CENTER (ERIC)."

SE 039 617

Groucho

The program called Groucho is designed to teach energy conservation concepts to upper elementary and junior high school students. The game is for use on the Apple II microcomputer with Applesoft Basic language. A complete program listing is included with this package.

The game utilizes low resolution graphics to reward students for correct answers to the 10 questions presented. Teachers may wish to include their own questions within the program and use the graphics as the positive reinforcement for correct answers. The game keeps a running tally of the number of questions which were answered correctly on the first try. Students have the ability to retry any question that was missed until they get the correct answer or wish to leave the program.

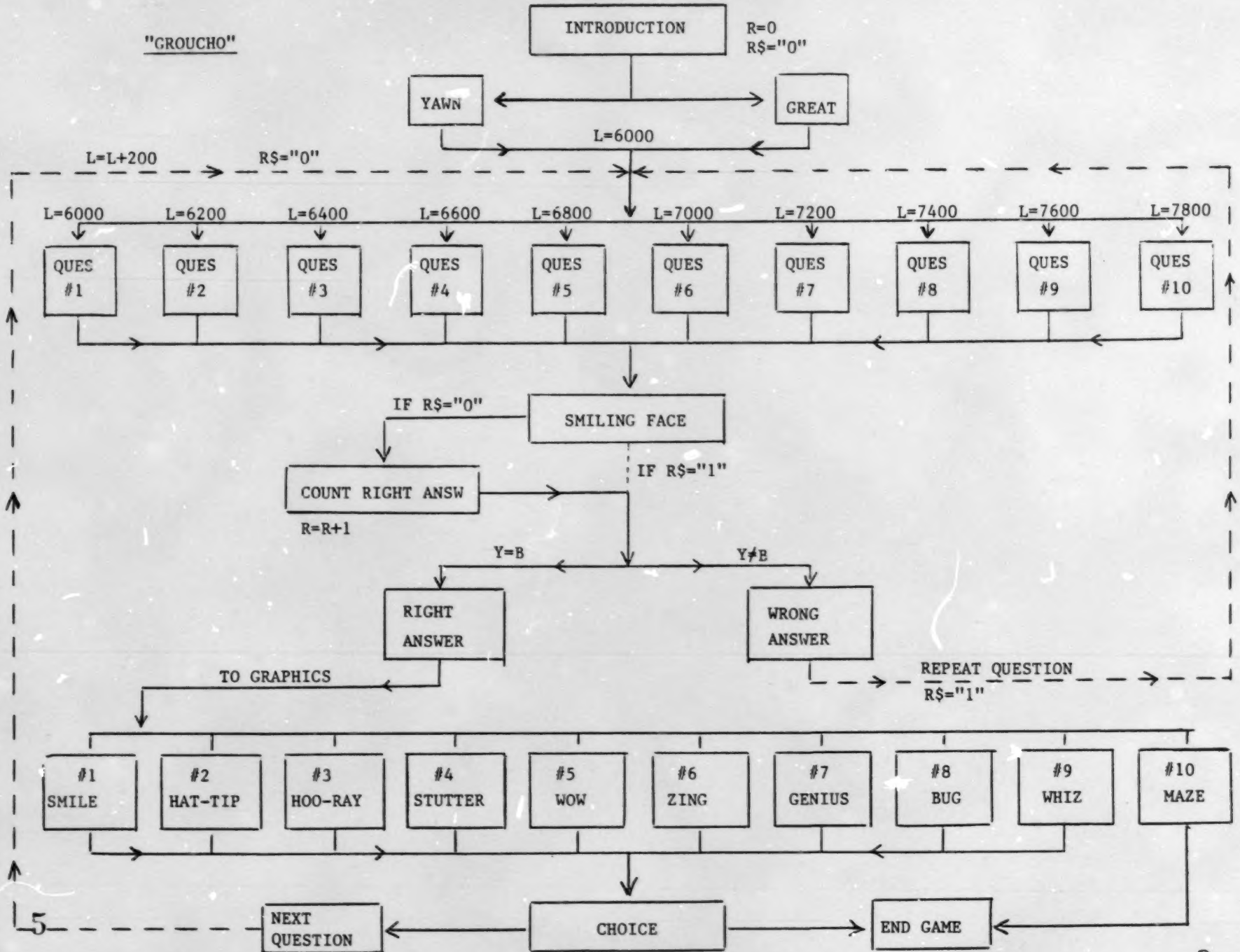
The program is termed "user friendly" because from the time the program is loaded into the computer the instructions are clearly presented to the user on the video screen. The user need only respond to the instructions to be successful using the program.

Once the entire set of questions has been asked and answered the student is presented with a "maze-type" conclusion in which it is necessary to get to the dot to end.

Interactive is the best word to describe the action of the program. Students cannot sit and be observers they must

actively participate in the program. The program is forgiving of mistakes in a humerous way chiding the student that "...you must have pressed the wrong key. Try again."

82.10.15
slc


"GROUCHO"
INTRODUCTION
R=0
R$="0"
YAWN
GREAT
L=6000
L=L+200
R$="0"
L=6000
L=6200
L=6400
L=6600
L=6800
L=7000
L=7200
L=7400
L=7600
L=7800
QUES #1
QUES #2
QUES #3
QUES #4
QUES #5
QUES #6
QUES #7
QUES #8
QUES #9
QUES #10
IF R$="0"
SMILING FACE
IF R$="1"
COUNT RIGHT ANSW
R=R+1
Y=B
Y≠B
RIGHT ANSWER
WRONG ANSWER
TO GRAPHICS
REPEAT QUESTION
R$="1"
#1 SMILE
#2 HAT-TIP
#3 HOO-RAY
#4 STUTTER
#5 WOW
#6 ZING
#7 GENIUS
#8 BUG
#9 WHIZ
#10 MAZE
NEXT QUESTION
CHOICE
END GAME

SYMBOLS USED IN "GROUCHO"

L	IDENTIFIES QUESTION NUMBER FOR COMPUTER. INITIALLY SET AT 6000, THEN RESET AT INTERVALS OF 200 FOR EACH NEW QUESTION (e.g. FOR QUESTION #1, L=6000; FOR QUESTION #2, L=6200. etc.). ALSO DIRECTS TO APPROPRIATE GRAPHIC.
Y	STUDENT'S ANSWER TO QUESTION
B	CORRECT ANSWER TO QUESTION
Y=B	STUDENT ANSWER IS CORRECT
Y≠B	STUDENT ANSWER IS WRONG
R	NUMBER OF RIGHT ANSWERS
R$	USED TO DISTINGUISH BETWEEN RIGHT AND WRONG ANSWERS FOR THE "COUNT RIGHT ANSWERS" SEQUENCE. SET AT "0" or "1".

GROUCHO
ENERGY CONSERVATION

APPLE II

```
]LIST  GROUCHO

5  HOME
10  CALL  - 936
11  TEXT
20  SPEED= 255
25  NORMAL
30  CALL  - 936
35  LET R = 0: REM  NUMBER RIGHT
40  PRINT  TAB( 10)"WELCOME TO MY HOME!"
50  FOR PAUSE = 1 TO 1000: NEXT PAUSE
60 : PRINT : PRINT : PRINT
70  PRINT  TAB( 5)"MY NAMES'S GROUCHO. WHAT'S YOURS?"
80 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
90  FLASH
100  PRINT "TYPE IN YOUR NAME AND PUSH (RETURN)"
110  NORMAL
120  INPUT N$
130  HOME
140  PRINT  TAB( 10)"HEY, ";N$;", WHAT'S NEW?
150 : PRINT : PRINT : PRINT : PRINT
160  FOR PAUSE = 1 TO 1000: NEXT PAUSE
170  PRINT "(1) NOTHIN' MUCH!"
180 : PRINT : PRINT
190  PRINT "(2) EVERYTHING! WHAT'S NEW BY YOU?"
200 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
210  FLASH
220  PRINT "PUSH EITHER THE (1) OR THE (2) KEY, THEN PUSH (RETURN)"
230  NORMAL
240  INPUT X
250  IF X = 1 THEN  GOTO 290
260  IF X = 2 THEN  GOTO 650
270  IF X < 1 THEN  GOTO 3020
280  IF X > 2 THEN  GOTO 3020
290  CALL  - 936
300  SPEED= 10
310  PRINT  TAB( 15)"YAAWWWNNN"
320  SPEED= 255
330  GOSUB 1060: REM  DELAY
340 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
350  PRINT "TAKING LIFE EASY, ARE YOU, ";N$;"?"
360  GOSUB 1060
370 : PRINT : PRINT : PRINT : PRINT : PRINT
380  PRINT "CONSERVING ENERGY, YOU THINK, MAYBE?"
390  GOSUB 1060
400  GOSUB 1060
410  GOSUB 1060
420  LET L = 6000: REM  QUESTION ID
421  LET R$ = "0": REM  COUNTING SEQUENCE
430  HOME : REM  QUESTION #1
440  PRINT  TAB( 10)"WHICH DO YOU THINK IS"
450  PRINT  TAB( 10)"THE BEST DEFINITION"
460  PRINT  TAB( 10)"OF ENERGY CONSERVATION?"
470 : PRINT : PRINT : PRINT : PRINT
480  PRINT "(1) DON'T USE ENERGY"
490 : PRINT : PRINT
500  PRINT "(2) USE LESS ENERGY"
510 : PRINT : PRINT
520  PRINT "(3) USE ENERGY WISELY"
530 : PRINT : PRINT : PRINT : PRINT : PRINT
540 B = 3: REM  SET CORRECT ANSW
550  FLASH
560  PRINT "PUSH THE (1), (2) OR (3) KEY, THEN PUSH (RETURN)"
570  NORMAL
580  INPUT Y: REM  SET STUDENT ANSW
```

```
590  GOSUB 1090
600  IF Y = B THEN  GOTO 1890: REM  RIGHT ANSW TO GRAPHICS, WRONG ANSW TO QUESTION
610  IF L = 6000 THEN  GOTO 430
620  IF L = 6200 THEN  GOTO 2250
630  IF L = 6400 GOTO 2580
640  IF L = 6600 THEN  GOTO 2870
642  IF L = 6800 THEN  GOTO 5050
643  IF L = 7000 THEN  GOTO 8080
644  IF L = 7200 THEN  GOTO 8400
645  IF L = 7400 THEN  GOTO 9090
646  IF L = 7600 THEN  GOTO 9500
650  CALL  - 936
670 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
680  PRINT  TAB( 10)"IT'S GREAT TO MEET SOMEONE
690 : PRINT : PRINT
700  PRINT  TAB( 10)"WHOSE GET-UP HASN'T GONE!"
710  FOR PAUSE = 1 TO 3000: NEXT PAUSE
720  GOSUB 1060
730  GOSUB 1090
750  SPEED= 255
760  COLOR= 0
770  HLIN 21,23 AT 18
780  COLOR= 15
790  HLIN 21,23 AT 19
800  PRINT  TAB( 5)"IF YOU GET MY DRIFT, THERE, ";N$;"!"
810  GOSUB 1060
820  COLOR= 0
830  HLIN 21,23 AT 19
840  COLOR= 15
850  HLIN 21,23 AT 18
860  GOSUB 1060
870  NORMAL
880  TEXT
890  CALL  - 936
900 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
910  PRINT N$;", SINCE YOU ";: INVERSE : PRINT "HAVE";: NORMAL : PRINT " SO MUCH ENERGY
920 : PRINT : PRINT : PRINT
930  PRINT "LET'S SEE WHAT YOU ";: INVERSE : PRINT "KNOW";: NORMAL : PRINT " ABOUT..."
940  FOR PAUSE = 1 TO 3000: NEXT PAUSE
950  CALL  - 936
960  FOR S = 1 TO 3: PRINT "Ω"
970  FOR M = 1 TO 24
980  FOR N = 1 TO M
990  HTAB M
1000  VTAB N
1010  PRINT "ENERGY"
1020  NEXT N
1030  NEXT M
1040  NEXT S
1050  GOTO 420
1060  FOR T = 1 TO 1000
1070  NEXT T
1080  RETURN
1090  HOME : REM  DRAW SMILING FACE
1100  GR
1110  COLOR= 15
1120  VLIN 20,24 AT 6: VLIN 20,24 AT 31
1130  PLOT 7,20: PLOT 7,24: PLOT 30,20: PLOT 30,24
1140  VLIN 15,31 AT 8
1150  VLIN 15,31 AT 29
1160  HLIN 13,24 AT 9
1170  HLIN 12,25 AT 36
1180  HLIN 15,22 AT 31
1190  HLIN 11,13 AT 10
1200  HLIN 24,26 AT 10
```

```
1210  PLOT 11,11
1220  HLIN 10,11 AT 12
1230  VLIN 13,15 AT 9
1240  PLOT 26,11
1250  HLIN 26,27 AT 12
1260  VLIN 13,15 AT 28
1270  VLIN 31,33 AT 9
1280  VLIN 31,33 AT 28
1290  VLIN 33,35 AT 10
1300  VLIN 33,35 AT 27
1310  PLOT 11,35
1320  PLOT 26,35
1330  HLIN 14,16 AT 18
1340  HLIN 21,23 AT 18
1350  HLIN 14,16 AT 20
1360  HLIN 21,23 AT 20
1370  PLOT 13,19
1380  PLOT 17,19
1390  PLOT 20,19
1400  PLOT 24,19
1410  HLIN 18,19 AT 23
1420  HLIN 18,19 AT 25
1430  PLOT 17,24
1440  PLOT 20,24
1450  PLOT 12,28
1460  PLOT  3,29
1470  PLOT 14,30
1480  PLOT 25,28
1490  PLOT 24,29
1500  PLOT 23,30
1501  IF H = 1 THEN  GOTO 16210
1502  GOSUB 1060
1503  GOSUB 26000
1505  IF L >  = 6000 THEN  GOTO 4500: REM  COUNTING SEQUENCE
1510  IF Y = B THEN  FOR PAUSE = 1 TO 400: NEXT PAUSE: PRINT "Ω"
1511  IF Y = B THEN  FOR PAUSE = 1 TO 200: NEXT PAUSE: PRINT "Ω"
1512  IF Y = B THEN  RETURN
1520  IF Y <  > B THEN  GOSUB 1540
1530  RETURN : REM  TO 600
1540  GOSUB 1060
1541  LET R$ = "1": REM  OMIT COUNTING AFTER FIRST WRONG ANSW
1550  COLOR= 0: REM  START FROWN
1560  PLOT 12,28
1570  PLOT 13,29
1580  PLOT 14,30
1590  PLOT 25,28
1600  PLOT 24,29
1610  PLOT 23,30
1620  COLOR= 15
1621 S =  - 16336
1622  FOR Q = 1 TO 200
1623 A =  PEEK (S)
1624  NEXT Q
1630  HLIN 12,25 AT 31
1640  GOSUB 1060
1650  PLOT 14,32
1660  PLOT 13,33
1670  PLOT 12,34
1680  PLOT 23,32
1690  PLOT 24,33
1700  PLOT 25,34
1710  COLOR= 0
1720  HLIN 12,14 AT 31
1730  HLIN 23,25 AT 31
1740  SPEED= 255
1750  GOSUB 1060
```

```
1760  GOSUB 1060
1770  TEXT
1780  CALL  - 936
1790  PRINT "OOPS! I'M AFRAID YOU MISSED THAT ONE."
1800  GOSUB 1060
1810  GOSUB 1060
1820 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
1830  PRINT "DO YOU WANT TO TRY THAT AGAIN, ";N$
1840 : PRINT : PRINT : PRINT : PRINT : PRINT
1850  FLASH
1860  PRINT "HIT ANY KEY TO CONTINUE": GET A$
1870  NORMAL
1880  RETURN
1889  REM  GRAPHICS SEQUENCES
1890  IF L = 6200 THEN  GOTO 3210: REM  HAT TIP
1900  IF L = 6400 THEN  GOTO 3850: REM  HOO-RAY
1910  IF L = 6600 THEN  GOTO 4270: REM  STUTTER
1912  IF L = 6800 THEN  GOTO 7000: REM  WOW
1914  IF L = 7000 THEN  GOTO 10000: REM  ZING
1916  IF L = 7200 THEN  GOTO 11200: REM  GENIUS
1917  IF L = 7400 THEN  GOTO 15000: REM  BUG
1918  IF L = 7600 THEN  GOTO 16200
1920  GOSUB 1060
1930  GOSUB 1060
1940  TEXT
1950  CALL  - 936
1960  SPEED= 255
1970  PRINT  TAB( 15)"EXCELLENT!!!"
1980 : PRINT : PRINT : PRINT : PRINT : PRINT
1990  PRINT "YOU DID SO WELL ON THAT ONE, ";N$;","
2000  PRINT : PRINT
2010  PRINT "HOW ABOUT ANOTHER QUESTION...?"
2030 :INVERSE: PRINT : PRINT : PRINT : PRINT
2040  PRINT "TYPE 'Y' TO CONTINUE, OR 'N' TO STOP      ΩYOUR CHOICE...(Y/N)"
2050  GET Z$
2060  NORMAL
2061  LET R$ = "0": REM  RE-SET FOR NEXT QUESTION
2070  IF Z$ = "Y" THEN  GOTO 2090
2080  IF Z$ <  > "Y" THEN  GOTO 3160
2081  GOTO 3020
2090 L = L + 200: REM  NEXT QUESTION
2100  IF L = 6200 THEN  GOTO 2130
2110  IF L = 6400 THEN  GOTO 2430
2120  IF L = 6600 THEN  GOTO 2740
2122  IF L = 6800 THEN  GOTO 5000
2123  IF L = 7000 THEN  GOTO 8000
2124  IF L = 7200 THEN  GOTO 8400
2125  IF L = 7400 THEN  GOTO 9000
2126  IF L = 7600 THEN  GOTO 9500
2127  IF L = 7800 THEN  GOTO 13600
2130  HOME : REM  QUESTION #2
2140  PRINT  TAB( 5)"OKAY, ";N$;", LET'S SEE IF I CAN"
2150  PRINT "STUMP YOU THIS TIME..."
2160 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
2170  PRINT "ENERGY IS USED TO DO ALL THE THINGS"
2180  PRINT "THAT PEOPLE LIKE TO DO..."
2190  PRINT "FROM RUNNING YOUR HOME TO RUNNING"
2200  PRINT "BANKS, FACTORIES, EVEN SCHOOL BUSSES!"
2210  PRINT "(THAT'S WHY ";: INVERSE : PRINT "USE ENERGY WISELY";: NORMAL : PRINT " WAS THE"
2220  PRINT "BEST ANSWER TO THE LAST QUESTION.)"
2230  PRINT : PRINT : PRINT : PRINT : PRINT
2240  FLASH : PRINT "PRESS ANY KEY TO CONTINUE.": NORMAL : GET B$
2250  CALL  - 936
2260  PRINT "WHICH GROUP USES THE MOST ENERGY?"
2270 : PRINT : PRINT : PRINT
2280  PRINT "(1) HOME OWNERS ('RESIDENTIAL')"
```

```
2290 : PRINT : PRINT
2300  PRINT "(2) BUSINESSES ('COMMERCIAL')"
2310 : PRINT : PRINT
2320  PRINT "(3) FACTORIES ('INDUSTRIAL')"
2330 : PRINT : PRINT
2340  PRINT "(4) CARS, TRUCKS, ETC ('TRANSPORTATION')"
2350 : PRINT : PRINT : FLASH
2360  PRINT "PUSH THE (1), (2), (3) OR (4) KEY,"
2370  PRINT "THEN PUSH (RETURN)."
2380  NORMAL
2390  LET B = 3
2400  INPUT Y
2410  GOTO 590
2430  HOME
2440  PRINT "SINCE YOU NOW KNOW THAT INDUSTRIES"
2450  PRINT "USE THE MOST ENERGY, YOU MIGHT BE"
2460  PRINT "INTERESTED TO KNOW THAT THOSE"
2470  PRINT "FACTORIES USE ABOUT ";: INVERSE : PRINT "40%";: NORMAL
2480  PRINT "OF OUR ENERGY."
2490 : PRINT : PRINT : PRINT
2500  PRINT "CARS, TRUCKS, BUSSES, ETC. USE ";: INVERSE : PRINT "25%";: NORMAL : PRINT "."
2510 : PRINT : PRINT : PRINT
2520  PRINT "HOMES AND APARTMENTS USE ";: INVERSE : PRINT "20%";: PRINT "."
2530  NORMAL
2540 : PRINT : PRINT : PRINT
2550  PRINT "BUSINESSES USE ";: INVERSE : PRINT "15%";: NORMAL : PRINT "."
2560 : PRINT : PRINT
2570  FLASH : PRINT "HIT ANY KEY TO CONTINUE.": NORMAL : GET B$
2580  HOME : REM  QUESTION #3
2590  LET B = 1
2600  PRINT  TAB( 8)"MORE THAN TWO-THIRDS OF THE"
2610  PRINT  TAB( 8)"ENERGY WE USE COMES FROM JUST"
2620  PRINT  TAB( 8)"TWO FUELS. NAME THEM."
2630 : PRINT : PRINT : PRINT : PRINT
2640  PRINT "(1) OIL AND NATURAL GAS"
2650 : PRINT : PRINT : PRINT
2660  PRINT "(2) COAL AND NUCLEAR"
2670 : PRINT : PRINT : PRINT
2680  PRINT "(3) SOLAR AND WIND"
2690 : PRINT : PRINT : PRINT
2700  FLASH : PRINT "PRESS THE (1), (2) OR THE (3) KEY, THEN PUSH (RETURN)."
2710  NORMAL
2720  INPUT Y
2730  GOTO 590
2740  HOME
2750  LET B = 3
2760  PRINT "ACTUALLY ";: INVERSE : PRINT "OIL";: NORMAL : PRINT " IS OUR MOST-USED FUEL,"
2770  PRINT "MAKING UP ";: INVERSE : PRINT "43%";: NORMAL : PRINT " OF THE ENERGY WE USE."
2780  PRINT : PRINT : PRINT
2790  PRINT "NATURAL GAS SUPPLIES ";: INVERSE : PRINT "27%";: NORMAL : PRINT " OF OUR ENERGY."
2800  PRINT : PRINT : PRINT
2810  PRINT "COAL SUPPLIES ";: INVERSE : PRINT "22%";: NORMAL : PRINT "."
2820  PRINT : PRINT : PRINT
2830  PRINT "HYDROELECTRICITY AND NUCLEAR POWER"
2840  PRINT "EACH SUPPLY ABOUT ";: INVERSE : PRINT "4%";: NORMAL : PRINT "."
2850  PRINT : PRINT : PRINT : PRINT : PRINT
2860  FLASH : PRINT "HIT ANY KEY TO CONTINUE.";: NORMAL : GET B$
2870  HOME : REM  QUESTION #4
2880  PRINT  TAB( 5)"WHAT IS MOST OF OUR OIL USED FOR?"
2890  PRINT : PRINT : PRINT
2900 : PRINT : PRINT : PRINT
2910  PRINT "(1) MAKING ELECTRICITY"
2920  PRINT : PRINT
2930  PRINT "(2) HEATING HOMES"
2940  PRINT : PRINT
2950  PRINT "(3) RUNNING CARS, TRUCKS, ETC"
```

```
2960  PRINT : PRINT : PRINT : PRINT : PRINT
2970  FLASH
2980  PRINT "PRESS THE (1), (2) OR THE (3) KEY AND THEN PRESS (RETURN)"
2990  NORMAL
3000  INPUT Y
3010  GOTO 590
3020  HOME
3030  GOSUB 1060
3040  NORMAL
3050  PRINT  TAB( 8)"YOU PROBABLY HIT A WRONG
3060  PRINT  TAB( 8)"KEY, ";N$;"!!"
3070 : PRINT : PRINT : PRINT : PRINT : PRINT
3080  PRINT  TAB( 8)"HOW ABOUT TAKING ANOTHER"
3090  PRINT  TAB( 8)"LOOK AT THE INSTRUCTIONS."
3100 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
3110  FLASH
3120  PRINT "PRESS ANY KEY TO CONTINUE"
3130  NORMAL
3140  GET B$
3150  IF L = 0 THEN  GOTO 130
3151  IF L <  > 0 THEN  GOTO 1940
3160  TEXT : HOME
3170  PRINT "THANKS FOR A GOOD GAME, ";N$
3180 : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
3190  PRINT "TYPE IN 'RUN' TO START THE GAME OVER
3200  END
3210  CALL  - 936
3220  GR
3230  COLOR= 15
3240  REM  SIDE OF HEAD
3250  VLIN 15,31 AT 8: VLIN 15,31 AT 29
3260  REM  CHIN, MOUTH
3270  HLIN 12,25 AT 36: HLIN 15,22 AT 31
3280  PLOT 12,28: PLOT 25,28: PLOT 13,29: PLOT 24,29: PLOT 14,30: PLOT 23,30
3290  REM  EYES
3300  HLIN 14,16 AT 18: HLIN 21,23 AT 18
3310  HLIN 14,16 AT 20: HLIN 21,23 AT 20
3320  PLOT 13,19: PLOT 17,19: PLOT 20,19: PLOT 24,19
3330  REM  EARS
3340  PLOT 7,20: PLOT 7,24: PLOT 30,20: PLOT 30,24
3350  VLIN 20,24 AT 6: VLIN 20,24 AT 31
3360  REM  NOSE
3370  HLIN 18,19 AT 23: HLIN 18,19 AT 25
3380  PLOT 17,24: PLOT 20,24
3390  REM  CHEEK, TEMPLES
3400  VLIN 31,33 AT 9: VLIN 33,35 AT 10: PLOT 11,35
3410  VLIN 31,33 AT 28: VLIN 33,35 AT 27: PLOT 26,35
3420  VLIN 13,15 AT 9: VLIN 13,15 AT 28
3425  PRINT "HAT'S OFF TO YOU, ";N$;"!!"
3430  FOR F = 1 TO 3
3440  COLOR= 15
3450  GOSUB 3600
3460  FOR PAUSE = 1 TO 1000: NEXT PAUSE
3480  COLOR= 0
3490  GOSUB 3600
3500  COLOR= 15
3510  GOSUB 3690
3520  FOR PAUSE = 1 TO 1000: NEXT PAUSE
3530  COLOR= 0
3540  GOSUB 3690
3550  NEXT F
3560  COLOR= 15
3570  GOSUB 3600
3580  FOR PAUSE = 1 TO 1000: NEXT PAUSE
3590  GOTO 1920
3600  REM  HAT
```

```
3610  PLOT 3,11: PLOT 34,11
3620  HLIN 3,34 AT 12: HLIN 7,30 AT 6
3630  VLIN 7,11 AT 7: VLIN 7,11 AT 30
3640  REM  EYEBROWS
3650  PLOT 12,17: PLOT 25,17
3660  HLIN 13,17 AT 16: HLIN 20,24 AT 16
3670  RETURN
3680  REM  TO 3460, TO 3500, TO 3580
3690  REM  LIFT HAT
3700  PLOT 3,6: PLOT 34,6
3710  HLIN 3,34 AT 7: HLIN 7,30 AT 1
3720  VLIN 1,6 AT 7: VLIN 1,6 AT 30
3730  REM  HEAD
3740  HLIN 10,11 AT 12: HLIN 26,27 AT 12
3750  PLOT 11,11: PLOT 26,11
3760  HLIN 11,13 AT 10: HLIN 24,26 AT 10
3770  HLIN 13,24 AT 9
3780  REM  RAISE BROWS
3790  PLOT 12,17: PLOT 13,16: PLOT 14,15: HLIN 15,17 AT 14
3800  PLOT 25,17: PLOT 24,16: PLOT 23,15: HLIN 20,22 AT 14
3810  PLOT 15,29: PLOT 22,29
3820  HLIN 16,21 AT 28
3830  RETURN
3840  REM  TO 3550
3850  FOR Q = 1 TO 3
3860  TEXT
3870  HOME
3880  SPEED= 200
3890 : PRINT : PRINT : PRINT : PRINT : PRINT
3900  PRINT "      HOO   HOO HOOHOOHOO HOOHOOHOO"
3910  PRINT "      HOO   HOO HOOHOOHOO HOOHOOHOO"
3920  PRINT "      HOO   HOO HOOHOOHOO HOOHOOHOO"
3930  PRINT "      HOO   HOO HOO   HOO HOO   HOO"
3940  PRINT "      HOO   HOO HOO   HOO HOO   HOO"
3950  PRINT "      HOO   HOO HOO   HOO HOO   HOO"
3960  PRINT "      HOOHOOHOO HOO   HOO HOO   HOO"
3970  PRINT "      HOOHOOHOO HOO   HOO HOO   HOO"
3980  PRINT "      HOOHOOHOO HOO   HOO HOO   HOO"
3990  PRINT "      HOO   HOO HOO   HOO HOO   HOO"
4000  PRINT "      HOO   HOO HOO   HOO HOO   HOO"
4010  PRINT "      HOO   HOO HOO   HOO HOO   HOO"
4020  PRINT "      HOO   HOO HOOHOOHOO HOOHOOHOO"
4030  PRINT "      HOO   HOO HOOHOOHOO HOOHOOHOO"
4040  PRINT "      HOO   HOO HOOHOOHOO HOOHOOHOO"
4050  SPEED= 255
4060  FOR PAUSE = 1 TO 300: NEXT PAUSE
4070  HOME
4080  PRINT : PRINT : PRINT : PRINT : PRINT
4090  PRINT  TAB( 6)"RAYRAYRAY RAYRAYRAY RAY   RAY"
4100  PRINT  TAB( 6)"RAYRAYRAY RAYRAYRAY RAY   RAY"
4110  PRINT  TAB( 6)"RAYRAYRAY RAYRAYRAY RAY   RAY"
4120  PRINT  TAB( 6)"RAY   RAY RAY   RAY RAY   RAY"
4130  PRINT  TAB( 6)"RAY   RAY RAY   RAY RAY   RAY"
4140  PRINT  TAB( 6)"RAY   RAY RAY   RAY  RAY RAY"
4150  PRINT  TAB( 6)"RAYRAYRAY RAY   RAY   RAYAY"
4160  PRINT  TAB( 6)"RAYRAYRAY RAYRAYRAY    RAY"
4170  PRINT  TAB( 7)"AYRAYAY  RAYRAYRAY    RAY"
4180  PRINT  TAB( 6)"RAYRA      RAYRAYRAY    RAY"
4190  PRINT  TAB( 6)"RAYRAY     RAY   RAY    RAY"
4200  PRINT  TAB( 6)"RAY RAY    RAY   RAY    RAY"
4210  PRINT  TAB( 6)"RAY  RAY   RAY   RAY    RAY"
4220  PRINT  TAB( 6)"RAY   RAY RAY   RAY    RAY"
4230  PRINT  TAB( 6)"RAY    AY RAY   RAY    RAY"
4240  FOR PAUSE = 1 TO 1000: NEXT PAUSE
4250  NEXT Q
4260  GOTO 1920
```

```
4270  TEXT
4280  HOME
4290  VTAB (10)
4300  SPEED= 100
4310  PRINT "NICE GOING, ";: PRINT  LEFT$ (N$,2);"...  ";: PRINT  LEFT$ (N$,2);"...  ";
4320  SPEED= 255
4330  FOR PAUSE = 1 TO 1000: NEXT PAUSE
4340  PRINT : PRINT : PRINT : PRINT : PRINT
4350  PRINT "SORRY ABOUT THAT,";N$;", BUT RIGHT"
4360  PRINT "ANSWERS MAKE ME SO HAPPY I STUTTER!!!"
4370  PRINT : PRINT
4380  FLASH
4390  PRINT "PRESS ANY KEY TO MOVE ALONG.';: GET B$
4400  NORMAL
4410  GOTO 1940
4500  IF R$ = "1" THEN  GOTO 1510: REM  COUNTING SEQUENCE
4510  IF Y = B THEN  GOTO 4600
4520  IF Y <  > B THEN  GOTO 1510
4600 R = R + 1
4610  GOTO 1510
4650  HOME
4660  VTAB 10: PRINT "YOU MIGHT BE INTERESTED TO KNOW"
4670  PRINT "HOW MANY OF THE QUESTIONS YOU"
4680  PRINT "ANSWERED RIGHT ON THE FIRST TRY."
4690  VTAB 20: FLASH : PRINT "HIT ANY KEY TO CONTINUE.": NORMAL : GET A$
4700  HOME
4710  VTAB 5: PRINT "OF THE 10 QUESTIONS, ";N$;","
4720  PRINT "YOU GOT ";R;" RIGHT ON THE FIRST TRY."
4730 X = (R / 10) * 100
4740  VTAB 8: PRINT "THAT'S A SCORE OF ";X;"%.": GOSUB 1060
4750  VTAB 12: PRINT "WANT TO GIVE OL' GROUCHO ANOTHER TRY?"
4760  VTAB 20: FLASH : PRINT "HIT ANY KEY.": NORMAL : GET A$
4770  GOTO 3160
5000  HOME : REM  QUESTION #5
5001  VTAB (12)
5002  PRINT "OKAY, ";N$;", YOU KNOW WHAT MOST OF"
5010  PRINT "OUR ";: INVERSE : PRINT "OIL";: NORMAL : PRINT " IS USED FOR. NOW..."
5020  PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
5030  FLASH : PRINT "HIT ANY KEY TO CONTINUE.": NORMAL : GET B$
5040  HOME
5050  PRINT "...WHAT IS MOST OF OUR ";: INVERSE : PRINT "COAL": NORMAL : PRINT " USED FOR?"
5060  PRINT : PRINT : PRINT : PRINT : PRINT
5070  PRINT "(1) MAKING ELECTRICITY"
5080  PRINT : PRINT : PRINT
5090  PRINT "(2) HEATING HOMES"
5100  PRINT : PRINT : PRINT
5110  PRINT "(3) RUNNING FACTORIES"
5120  PRINT : PRINT : PRINT : PRINT : PRINT
5130  FLASH : PRINT "PRESS THE (1), (2) OR THE (3) KEY"
5140  PRINT "THEN PRESS (RETURN)>": NORMAL
5150  LET B = 1
5160  INPUT Y
5170  GOTO 590
6020  FOR Z = 3 TO 37: REM  LINES AT START OF WOW
6030  PLOT Z,36
6040  FOR PAUSE = 1 TO 10: NEXT PAUSE
6050  NEXT Z
6060  FOR Z = 39 TO 5 STEP  - 1
6070  PLOT Z,3
6080  FOR PAUSE = 1 TO 10: NEXT PAUSE
6090  NEXT Z
6100  FOR Z = 36 TO 31 STEP  - 1
6110  PLOT 37,Z
6120  FOR PAUSE = 1 TO 10: NEXT PAUSE
6130  NEXT Z
6140  FOR Z = 3 TO 8
```

```
6150  PLOT 5,Z
6160  FOR PAUSE = 1 TO 10: NEXT PAUSE
6170  NEXT Z
6180  RETURN
6500  FOR Z = 20 TO 28
6510  PLOT 21,Z: NEXT Z
6520  FOR Z = 28 TO 11 STEP  - 1
6530  PLOT 22,Z: NEXT Z
6540  PLOT 21,11
6550  FOR Z = 11 TO 29
6560  PLOT 20,Z: NEXT Z
6570  HLIN 20,23 AT 29
6580  FOR Z = 29 TO 10 STEP  - 1
6590  PLOT 23,Z: NEXT Z
6600  FOR Z = 23 TO 19 STEP  - 1
6602  PLOT Z,10: NEXT Z
6610  FOR Z = 10 TO 30
6620  PLOT 19,Z: NEXT Z
6630  FOR Z = 19 TO 24
6640  PLOT Z,30: NEXT Z
6650  FOR Z = 30 TO 9 STEP  - 1
6660  PLOT 24,Z: NEXT Z
6670  FOR Z = 24 TO 18 STEP  - 1
6680  PLOT Z,9: NEXT Z
6690  FOR Z = 9 TO 31
6700  PLOT 18,Z: NEXT Z
6710  FOR Z = 18 TO 25
6720  PLOT Z,31: NEXT Z
6730  FOR Z = 31 TO 8 STEP  - 1
6740  PLOT 25,Z: NEXT Z
6750  FOR Z = 25 TO 17 STEP  - 1
6760  PLOT Z,8: NEXT Z
6770  FOR Z = 8 TO 31
6780  PLOT 17,Z: NEXT Z
6790  RETURN
7000  GR : HOME : REM  WOW
7010  COLOR= 1: REM  DRAW LINES
7020  GOSUB 6020
7030  COLOR= 0: REM  ERASE LINES
7040  GOSUB 6020
7045  COLOR= 1: REM  WOW
7050  FOR Z = 8 TO 31
7060  PLOT 5,Z
7065  NEXT Z
7070  FOR Q = 31 TO 8 STEP  - 1
7080  PLOT 37,Q
7090  NEXT Q
7100  FOR Z = 8 TO 31
7110  PLOT 36,Z: NEXT Z
7120  FOR Z = 31 TO 8 STEP  - 1
7130  PLOT 6,Z: NEXT Z
7140  FOR Z = 30 TO 23 STEP  - 1
7150  PLOT 7,Z: NEXT Z
7160  FOR Z = 23 TO 30
7170  PLOT 35,Z: NEXT Z
7180  FOR Z = 22 TO 29
7190  PLOT 8,Z: NEXT Z
7200  FOR Z = 29 TO 22 STEP  - 1
7210  PLOT 34,Z: NEXT Z
7220  FOR Z = 28 TO 21 STEP  - 1
7230  PLOT 9,Z: NEXT Z
7240  FOR Z = 21 TO 28
7250  PLOT 33,Z: NEXT Z
7260  FOR Z = 22 TO 29
7270  PLOT 10,Z: NEXT Z
7280  FOR Z = 29 TO 22 STEP  - 1
```

```
7290  PLOT 32,Z: NEXT Z
7300  FOR Z = 30 TO 23 STEP  - 1
7310  PLOT 11,Z: NEXT Z
7320  FOR Z = 23 TO 30
7330  PLOT 31,Z: NEXT Z
7340  FOR Z = 8 TO 31
7350  PLOT 12,Z: NEXT Z
7360  FOR Z = 31 TO 8 STEP  - 1
7370  PLOT 30,Z: NEXT Z
7380  FOR Z = 31 TO 8 STEP  - 1
7390  PLOT 13,Z: NEXT Z
7400  FOR Z = 8 TO 31
7410  PLOT 29,Z: NEXT Z
7412  IF F = 0 THEN  GOTO 7420
7414  IF F = 1 THEN  GOTO 7600
7416  IF F = 2 THEN  GOTO 7630
7420  GOSUB 6500
7430  COLOR= 6
7440  GOSUB 6500
7450  COLOR= 10
7460  GOSUB 6500
7470  COLOR= 15
7480  GOSUB 6500
7490  FOR T = 1 TO 3
7500  COLOR= 0
7510  GOSUB 6500
7520  COLOR= 15
7530  GOSUB 6500
7540  NEXT T
7550  PRINT "YOU DONE GOOD, ";N$;"!!!"
7560  LET F = 1
7570  IF F = 1 THEN  GOTO 7580
7580  COLOR= 10
7590  GOTO 7050
7600  LET F = 2
7610  COLOR= 15
7620  GOTO 7050
7630  FOR PAUSE = 1 TO 1000: NEXT PAUSE
7640  GOTO 1940
8000  HOME : REM  QUESTION # 6
8010  VTAB (12)
8020  PRINT  TAB( 5)"LET'S SEE IF YOU CAN REMEMBER"
8021  PRINT  TAB( 5)"SOME OF THE INFORMATION"
8022  PRINT  TAB( 5)"FROM THE LAST FEW QUESTIONS."
8040  PRINT : PRINT : PRINT
8050  PRINT  TAB( 5)"ARE YOU READY, ";N$;"?"
8060  PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT : PRINT
8070  FLASH : PRINT "PRESS ANY KEY TO MOVE ALONG.": NORMAL : GET B$
8080  HOME
8090  PRINT "HOW MUCH OF OUR ENERGY IS USED"
8100  PRINT "IN HOMES AND APARTMENTS?"
8200  PRINT : PRINT : PRINT : PRINT : PRINT
8210  PRINT "(1) ABOUT 10%"
8220  PRINT : PRINT : PRINT
8230  PRINT "(2) ABOUT 20%"
8240  PRINT : PRINT : PRINT
8250  PRINT "(3) ABOUT 50%"
8260  PRINT : PRINT : PRINT : PRINT
8270  FLASH : PRINT "PRESS THE (1), (2) OR THE (3) KEY"
8280  PRINT "THEN PRESS (RETURN)."
8285  NORMAL
8290  LET B = 2
8300  INPUT Y
8310  GOTO 590
8400  HOME : REM  QUESTION #7
```

```
8410  VTAB 5
8420  PRINT "NOW, ";N$;", CAN YOU REMEMBER HOW"
8430  PRINT "MUCH OF OUR ENERGY COMES FROM COAL?"
8440  VTAB 10
8450  PRINT "(1) 10%"
8460  VTAB 12
8470  PRINT "(2) 20%"
8480  VTAB 14
8490  PRINT "(3) 30%"
8500  VTAB 16
8510  PRINT "(4) 40%"
8520  VTAB 22
8530  FLASH : PRINT "PRESS THE (1), (2), (3) OR (4) KEY"
8540  PRINT "THEN PRESS (RETURN).": NORMAL
8550  INPUT Y
8560  LET B = 2
8570  GOTO 590
9000  HOME
9010  VTAB 5
9020  PRINT  TAB( 10)"WELL, ";N$;", HOW DOES IT"
9030  PRINT  TAB( 10)"FEEL TO BE A ";: INVERSE : PRINT "GENIUS";: NORMAL : PRINT "?"
9040  GOSUB 1060
9050  VTAB 15
9060  PRINT "...PRETTY GOOD, I BETCHA, HUH?"
9070  VTAB 20
9080  FLASH : PRINT "HIT ANY KEY TO CONTINUE.": NORMAL : GET B$
9090  HOME
9100  VTAB 3: PRINT "YOUR NEXT THREE QUESTIONS WILL BE"
9110  PRINT "ABOUT ELECTRICITY...AND DUKE POWER."
9120  GOSUB 1060
9121  GOSUB 1060
9125  SPEED= 150
9130  VTAB 12
9140  PRINT "REMEMBER THAT ELECTRIC POWER PLANTS"
9150  PRINT "CAN USE SEVERAL FUELS:"
9155  GOSUB 1060
9160  VTAB 15
9170  SPEED= 50
9180  PRINT "...COAL (FOR 53% OF U.S. ELECTRICITY)
9182  FOR PAUSE = 1 TO 25: NEXT PAUSE
9190  PRINT "...WATER, OR HYDROELECTRICITY (FOR 15%)
9192  FOR PAUSE = 1 TO 25: NEXT PAUSE
9200  PRINT "...NATURAL GAS (FOR 13%)
9202  FOR PAUSE = 1 TO 25: NEXT PAUSE
9210  PRINT "...NUCLEAR (FOR 12%)
9212  FOR PAUSE = 1 TO 25: NEXT PAUSE
9220  PRINT "...AND OIL (FOR 7%)
9230  VTAB 22
9235  SPEED= 255
9240  FLASH : PRINT "WHEN YOU ARE READY TO MOVE ON,"
9250  PRINT "HIT ANY KEY.": NORMAL : GET B$
9260  HOME : REM  QUESTION #8
9270  PRINT "CAN YOU REMEMBER WHICH FUEL PRODUCES"
9280  PRINT "MOST OF THIS COUNTRY'S ELECTRICITY?"
9290  VTAB 5
9300  PRINT "(1) OIL"
9310  PRINT "(2) NUCLEAR"
9320  PRINT "(3) NATURAL GAS"
9330  PRINT "(4) HYDROELECTRICITY"
9340  PRINT "(5) COAL"
9350  VTAB 20
9360  FLASH : PRINT "PUSH THE (1), (2), (3), (4) OR (5)"
9370  PRINT "KEY, THEN PUSH (RETURN).": NORMAL
9380  LET B = 5
9390  INPUT Y
9400  GOTO 590
```

```
9500  HOME : REM  QUESTION #9
9510  VTAB 5: PRINT "AT DUKE POWER WE USE PRACTICALLY "
9520  PRINT "NO ";: INVERSE : PRINT "OIL";: NORMAL : PRINT " OR ";: INVERSE : PRINT "GAS";
9530  VTAB 10: PRINT "WE DO USE A LOT OF ";: INVERSE : PRINT "COAL";: NORMAL : PRINT " HOWEVER."
9540  PRINT "IT PRODUCES MOST OF OUR ELECTRICITY..."
9550  PRINT "ABOUT ";: INVERSE : PRINT "65%";: NORMAL : PRINT "."
9560  VTAB 14: PRINT "WE USE ";: INVERSE : PRINT "NUCLEAR POWER";: NORMAL : PRINT "TO PRODUCE"
9570  PRINT "ABOUT ";: INVERSE : PRINT "30%";: NORMAL : PRINT " OF OUR ELECTRICITY..."
9580  VTAB 17: PRINT "AND ";: INVERSE : PRINT "HYDROELECTRICITY";: NORMAL : PRINT " FOR THE LAST
9590  VTAB 22: FLASH : PRINT "PRESS ANY KEY WHEN YOU ARE READY"
9600  PRINT "TO MOVE ALONG.": NORMAL : GET A$
9610  HOME
9620  PRINT "NOW, ";N$;", WHAT KIND OF POWER"
9630  PRINT "PLANT DOES DUKE POWER USE MOST?"
9640  GOSUB 1060
9650  VTAB 8: PRINT "(1) NUCLEAR POWER"
9660  VTAB 11: PRINT "(2) COAL-FIRED"
9670  VTAB 14: PRINT "(3) OIL AND GAS"
9680  VTAB 17: PRINT "(4) HYDROELECTRIC"
9690  VTAB 22: FLASH : PRINT "PRESS THE (1), (2), (3) OR (4) KEY,"
9700  PRINT "THEN PRESS (RETURN).": NORMAL
9710  LET B = 2
9720  INPUT Y
9730  GOTO 590
10000  GR : REM  ZING
10010  COLOR= 15
10020  GOSUB 11000
10030  COLOR= 0
10040  GOSUB 11000
10050  COLOR= 15
10060  GOSUB 12000
10070  COLOR= 0
10080  GOSUB 12000
10090  COLOR= 15
10100  GOSUB 13000
10110  COLOR= 0
10120  GOSUB 13000
10130  COLOR= 1
10140  GOSUB 13000
10150  COLOR= 10
10160  GOSUB 13000
10170  COLOR= 15
10180  GOSUB 13000
10190  FOR Z = 6 TO 32
10200  PLOT 14,Z: NEXT Z
10210  FOR Z = 32 TO 6 STEP  - 1
10220  PLOT 15,Z: NEXT Z
10230  FOR Z = 6 TO 32
10240  PLOT 16,Z: NEXT Z
10250  FOR Z = 6 TO 32
10260  PLOT 19,Z: NEXT Z
10270  FOR Z = 32 TO 6 STEP  - 1
10280  PLOT 20,Z: NEXT Z
10290  VLIN 7,11 AT 21
10300  VLIN 7,11 AT 22
10310  VLIN 12,16 AT 22
10320  VLIN 12,16 AT 23
10330  VLIN 17,21 AT 23
10340  VLIN 17,21 AT 24
10350  VLIN 22,26 AT 24
10360  VLIN 22,26 AT 25
10370  VLIN 27,31 AT 25
10380  VLIN 27,31 AT 26
10390  FOR Z = 32 TO 6 STEP  - 1
10400  PLOT 27,Z: NEXT Z
10410  FOR Z = 6 TO 32
```

```
10420  PLOT 28,Z: NEXT Z
10430  FOR Z = 31 TO 39
10440  PLOT Z,6: NEXT Z
10450  FOR Z = 39 TO 31 STEP  - 1
10460  PLOT Z,7: NEXT Z
10470  FOR Z = 31 TO 39
10480  PLOT Z,8: NEXT Z
10490  FOR Z = 6 TO 32
10500  PLOT 31,Z: NEXT Z
10510  FOR Z = 32 TO 6 STEP  - 1
10520  PLOT 32,Z: NEXT Z
10530  FOR Z = 31 TO 39
10540  PLOT Z,30: NEXT Z
10550  FOR Z = 39 TO 31 STEP  - 1
10560  PLOT Z,31: NEXT Z
10570  FOR Z = 31 TO 39
10580  PLOT Z,32: NEXT Z
10590  FOR Z = 32 TO 20 STEP  - 1
10600  PLOT 38,Z: NEXT Z
10610  FOR Z = 32 TO 20 STEP  - 1
10620  PLOT 39,Z: NEXT Z
10630  VLIN 20,22 AT 37
10640  VLIN 20,22 AT 36
10650  VLIN 20,22 AT 35
10655  FOR T = 1 TO 2
10660  IF Q = 1 THEN  GOTO 10710
10665  IF Q = 2 THEN  GOTO 10750
10670  LET Q = 1
10680  COLOR= 0
10690  GOSUB 13000
10700  GOTO 10190
10710  COLOR= 15
10715  LET Q = 2
10720  GOSUB 13000
10730  GOTO 10190
10745  FOR PAUSE = 1 TO 500: NEXT PAUSE
10750  FOR PAUSE = 1 TO 500: NEXT PAUSE
10760  GOTO 1940
11000  FOR Z = 5 TO 9
11010  PLOT Z,16: NEXT Z
11020  PLOT 8,17
11030  PLOT 7,18
11040  PLOT 7,19
11050  PLOT 6,20
11060  PLOT 6,21
11070  FOR Z = 5 TO 9
11080  PLOT Z,22: NEXT Z
11090  FOR PAUSE = 1 TO 50: NEXT PAUSE
11100  RETURN
11200  GR : REM  GENIUS
11210  COLOR= 15
11220  FOR X = 37 TO 21 STEP  - 1
11230  PLOT 1,X: NEXT X
11240  FOR X = 1 TO 15
11250  PLOT X,20: NEXT X
11260  FOR X = 20 TO 27
11270  PLOT 15,X: NEXT X
11280  FOR X = 16 TO 31
11290  PLOT X,27: NEXT X
11300  FOR X = 27 TO 37
11310  PLOT 31,X: NEXT X
11320  HLIN 5,11 AT 23: HLIN 5,11 AT 28: HLIN 19,26 AT 29
11330  VLIN 23,28 AT 5: VLIN 23,28 AT 11
11340  VLIN 29,37 AT 19: VLIN 29,37 AT 26
11350  COLOR= 10
```

```
11360  FOR X = 3 TO 14
11370  PLOT X,30: NEXT X
11380  FOR X = 3 TO 14
11390  PLOT X,32: NEXT X
11400  FOR X = 3 TO 14
11410  PLOT X,34: NEXT X
11420  FOR X = 3 TO 14
11430  PLOT X,36: NEXT X
11440  HLIN 21,24 AT 31
11450  PLOT 21,32: PLOT 24,32: HLIN 21,24 AT 33: PLOT 21,35
11460  COLOR= 12
11470  FOR X = 19 TO 2 STEP  - 1
11480  PLOT 1,X: NEXT X
11490  FOR X = 2 TO 19
11500  PLOT 2,X: NEXT X
11510  COLOR= 10
11520  FOR X = 3 TO 37
11530  PLOT X,3: NEXT X
11540  FOR X = 3 TO 13
11550  PLOT 37,X: NEXT X
11560  FOR X = 37 TO 3 STEP  - 1
11570  PLOT X,13: NEXT X
11580  PRINT  TAB( 12)N$;"'S HOUSE"
11590  COLOR= 6
11600  GOSUB 12490
11610  COLOR= 10
11620  GOSUB 12490
11630  COLOR= 15
11640  GOSUB 12490
11645  FOR T = 1 TO 3
11650  COLOR= 0
11660  GOSUB 12490
11670  COLOR= 15
11680  GOSUB 12490
11690  NEXT T
11700  FOR PAUSE = 1 TO 2000: NEXT PAUSE
11710  GOTO 1940
12000  FOR Z = 4 TO 10: REM  ZING
12010  PLOT Z,12: NEXT Z
12020  FOR Z = 10 TO 4 STEP  - 1
12030  PLOT Z,13: NEXT Z
12040  HLIN 8,10 AT 14
12050  HLIN 7,9 AT 15
12060  HLIN 7,9 AT 16
12070  HLIN 7,9 AT 17
12080  HLIN 6,8 AT 18
12090  HLIN 6,8 AT 19
12100  HLIN 6,8 AT 20
12110  HLIN 5,7 AT 21
12120  HLIN 5,7 AT 22
12130  HLIN 5,7 AT 23
12140  HLIN 4,6 AT 24
12150  HLIN 4,6 AT 24
12160  FOR Z = 4 TO 10
12170  PLOT Z,25: NEXT Z
12180  FOR Z = 10 TO 4 STEP  - 1
12190  PLOT Z,26: NEXT Z
12200  FOR PAUSE = 1 TO 50: NEXT PAUSE
12210  RETURN
12490  FOR PAUSE = 1 TO 1000: NEXT PAUSE: REM  GENIUS
12500  FOR X = 6 TO 4 STEP  - 1
12510  PLOT X,5: NEXT X
12520  FOR X = 5 TO 11
12530  PLOT 4,X: NEXT X
12540  FOR X = 4 TO 7
12550  PLOT X,11: NEXT X
```

```
12560  FOR X = 11 TO 9 STEP  - 1
12570  PLOT 7,X: NEXT X
12580  PLOT 6,9
12590  FOR X = 13 TO 10 STEP  - 1
12600  PLOT X,5: NEXT X
12610  FOR X = 5 TO 11
12620  PLOT 10,X: NEXT X
12630  FOR X = 11 TO 13
12640  PLOT X,11: NEXT X
12650  HLIN 11,12 AT 8
12660  FOR X = 11 TO 5 STEP  - 1
12670  PLOT 16,X: NEXT X
12680  PLOT 17,6: VLIN 7,9 AT 18: PLOT 19,10
12690  FOR X = 11 TO 5 STEP  - 1
12700  PLOT 20,X: NEXT X
12710  FOR X = 5 TO 11
12720  PLOT 23,X: NEXT X
12730  FOR X = 5 TO 11
12740  PLOT 26,X: NEXT X
12750  HLIN 27,28 AT 11
12760  FOR X = 11 TO 5 STEP  - 1
12770  PLOT 29,X: NEXT X
12780  FOR X = 35 TO 32 STEP  - 1
12790  PLOT X,5: NEXT X
12800  FOR X = 6 TO 8
12810  PLOT 32,X: NEXT X
12820  FOR X = 33 TO 35
12830  PLOT X,8: NEXT X
12840  FOR X = 9 TO 11
12850  PLOT 35,X: NEXT X
12860  FOR X = 34 TO 32 STEP  - 1
12870  PLOT X,11: NEXT X
12880  RETURN
13000  FOR Z = 3 TO 11: REM  ZING
13010  PLOT Z,6: NEXT Z
13020  FOR Z = 11 TO 3 STEP  - 1
13030  PLOT Z,7: NEXT Z
13040  FOR Z = 3 TO 11
13050  PLOT Z,8: NEXT Z
13060  FOR Z = 9 TO 11
13070  PLOT 11,Z: NEXT Z
13080  FOR Z = 11 TO 9 STEP  - 1
13090  PLOT 10,Z: NEXT Z
13100  FOR Z = 9 TO 11
13110  PLOT 9,Z: NEXT Z
13120  FOR Z = 12 TO 14
13130  PLOT 10,Z: NEXT Z
13140  FOR Z = 14 TO 12 STEP  - 1
13150  PLOT 9,Z: NEXT Z
13160  FOR Z = 12 TO 14
13170  PLOT 8,Z: NEXT Z
13180  FOR Z = 15 TO 17
13190  PLOT 9,Z: NEXT Z
13200  FOR Z = 17 TO 15 STEP  - 1
13210  PLOT 8,Z: NEXT Z
13220  FOR Z = 15 TO 17
13230  PLOT 7,Z: NEXT Z
13240  FOR Z = 18 TO 20
13250  PLOT 8,Z: NEXT Z
13260  FOR Z = 20 TO 18 STEP  - 1
13270  PLOT 7,Z: NEXT Z
13280  FOR Z = 18 TO 20
13290  PLOT 6,Z: NEXT Z
13300  FOR Z = 21 TO 23
13310  PLOT 7,Z: NEXT Z
13320  FOR Z = 23 TO 21 STEP  - 1
```

```
13330  PLOT 6,Z: NEXT Z
13340  FOR Z = 21 TO 23
13350  PLOT 5,Z: NEXT Z
13360  FOR Z = 24 TO 26
13370  PLOT 6,Z: NEXT Z
13380  FOR Z = 26 TO 24 STEP  - 1
13390  PLOT 5,Z: NEXT Z
13400  FOR Z = 24 TO 26
13410  PLOT 4,Z: NEXT Z
13420  FOR Z = 27 TO 29
13430  PLOT 5,Z: NEXT Z
13440  FOR Z = 29 TO 27 STEP  - 1
13450  PLOT 4,Z: NEXT Z
13460  FOR Z = 27 TO 29
13470  PLOT 3,Z: NEXT Z
13480  FOR Z = 3 TO 11
13490  PLOT Z,30: NEXT Z
13500  FOR Z = 11 TO 3 STEP  - 1
13510  PLOT Z,31: NEXT Z
13520  FOR Z = 3 TO 11
13530  PLOT Z,32: NEXT Z
13540  FOR PAUSE = 1 TO 50: NEXT PAUSE
13550  RETURN
13600  HOME : REM  QUESTION #10
13610  VTAB 5: PRINT  TAB( 14)"CONGRATULATIONS!": GOSUB 1060
13620  VTAB 10: PRINT "YOU'RE ALMOST HOME, ";N$
13630  VTAB 12: PRINT "...AND OL' GROUCHO HAS A SURPRISE"
13640  PRINT "FOR YOU AFTER THE LAST QUESTION."
13650  VTAB 22: FLASH : PRINT "WHEN YOU ARE READY, PRESS ANY"
13660  PRINT "KEY TO MOVE ALONG.": NORMAL : GET A$
13670  HOME
13680  PRINT "WE STARTED THIS QUIZ WITH ENERGY"
13690  PRINT "CONSERVATION...SO WE OUGHT TO END"
13700  PRINT "IT WITH ENERGY CONSERVATION.": GOSUB 1060: GOSUB 1060
13710  SPEED= 100: VTAB 8: PRINT "AN AWFUL LOT OF COAL, OIL, NATURAL"
13720  PRINT "GAS AND URANIUM IS USED TO MAKE"
13730  PRINT "ELECTRICITY..."
13740  VTAB 12: PRINT "AND ENERGY CONSERVATION IS THE BEST"
13750  PRINT "WAY TO MAKE THOSE FUELS LAST."
13760  VTAB 21: SPEED= 255: FLASH : PRINT "PRESS ANY KEY TO CONTINUE.": NORMAL : GET A$
13770  HOME
13780  PRINT "IF YOU WERE GOING TO PRACTICE ENERGY"
13790  PRINT "CONSERVATION IN YOUR HOME. WHAT WOULD"
13800  PRINT "YOU DO?"
13810  GOSUB 1060
13820  VTAB 5: PRINT "(1) WEATHER STRIP AROUND DOORS"
13830  VTAB 8: PRINT "(2) CAULK AROUND WINDOWS"
13840  VTAB 11: PRINT "(3) INSULATE"
13850  VTAB 14: PRINT "(4) PUT UP STORM WINDOWS"
13860  VTAB 21: FLASH : PRINT "HIT THE (1), (2), (3) OR (4) KEY,"
13870  PRINT "THEN PUSH (RETURN).": NORMAL :R = R + 1
13880  INPUT Y: GOTO 13890
13890  HOME
13900  PRINT  TAB( 10)"NICE GOING, ";N$;"!"
13905  GOSUB 1060
13910  VTAB 5: PRINT "DOING ANY ONE OF THOSE WILL HELP"
13920  PRINT "SAVE ENERGY";: GOSUB 1060: GOSUB 1060;: PRINT "...AND DOING
13930  PRINT "ALL OF THEM IS BEST."
13940  GOSUB 1060: GOSUB 1060
13950  VTAB 12: PRINT "ONE LAST THING BEFORE YOU GO..."
13960  VTAB 22: FLASH : PRINT "PRESS ANY KEY TO MOVE ALONG.": NORMAL : GET A$
13970  HOME : SPEED= 100
13980  PRINT "I'VE HAD YOU IN MY CLUTCHES FOR"
13990  PRINT "TEN QUESTIONS...": SPEED= 150
14000  VTAB 5: PRINT "TO GET AWAY YOU'LL HAVE TO RUN"
14010  PRINT "THROUGH A MAZE.": GOSUB 1060: SPEED= 255
```

```
14015  GOSUB 1060
14020  VTAB 8: PRINT "THE ";N$;"-DOT WILL BE AT THE"
14030  PRINT "UPPER LEFT CORNER OF THE MAZE, AND THE"
14040  PRINT "HOME-DOT IS IN THE LOWER CENTRAL PART"
14050  PRINT "OF THE MAZE."
14060  VTAB 15: PRINT "INSTRUCTIONS ON HOW TO MOVE THROUGH"
14070  PRINT "THE MAZE WILL BE PRINTED AT THE BOTTOM"
14080  PRINT "OF THE MAZE."
14090  VTAB 21: FLASH : PRINT "ANY KEY WILL START THE MAZE.": NORMAL : GET A$
14100  GOTO 22000
15000  GR : HOME : REM  BUG
15010  COLOR= 8
15020  HLIN 0,6 AT 20
15030  VLIN 20,30 AT 6
15040  VLIN 20,30 AT 0
15050  HLIN 0,6 AT 30
15060  PLOT 0,31: PLOT 2,31: PLOT 4,31: PLOT 6,31
15070  PLOT 2,32: PLOT 4,32: PLOT 7,32
15072  PLOT 2,33: PLOT 4,33
15080  VLIN 33,38 AT 1: VLIN 33,38 AT 5
15081  VLIN 33,38 AT 8
15090  HLIN 7,9 AT 24
15100  VLIN 20,28 AT 9: VLIN 20,28 AT 11
15110  PLOT 9,19: PLOT 11,19
15120  PLOT 8,18: PLOT 12,18
15130  PLOT 7,17: PLOT 13,17
15140  PLOT 6,16: PLOT 14,16
15150  PLOT 5,15: PLOT 15,15
15160  PLOT 4,14: PLOT 16,14
15170  PLOT 3,13: PLOT 17,13
15180  PLOT 2,12: PLOT 18,12
15190  PLOT 1,11: PLOT 19,11
15200  PLOT 0,11: PLOT 20,11
15210  COLOR= 15
15220  HLIN 13,19 AT 20: HLIN 13,19 AT 30
15230  VLIN 20,30 AT 13: VLIN 20,30 AT 19
15240  PLOT 13,31: PLOT 19,31
15250  VLIN 31,33 AT 15: VLIN 31,33 AT 17
15260  PLOT 12,32: PLOT 20,32
15270  VLIN 33,38 AT 11: VLIN 33,38 AT 14: VLIN 33,38 AT 18: VLIN 33,38 AT 21
15280  HLIN 20,22 AT 24
15290  VLIN 20,28 AT 22: VLIN 20,28 AT 24
15300  GOSUB 15750
15310  COLOR= 2
15320  HLIN 26,32 AT 20: HLIN 26,32 AT 30
15330  VLIN 20,30 AT 26: VLIN 20,30 AT 32
15340  PLOT 26,31: PLOT 32,31
15350  VLIN 31,33 AT 28: VLIN 31,33 AT 30
15360  PLOT 25,32: PLOT 33,32
15370  VLIN 33,38 AT 24: VLIN 33,38 AT 27: VLIN 33,38 AT 31: VLIN 33,38 AT 34
15380  HLIN 33,35 AT 24
15390  VLIN 20,30 AT 35: VLIN 20,30 AT 37
15400  PLOT 35,19: PLOT 37,19
15410  PLOT 34,18: PLOT 38,18
15420  PLOT 33,17: PLOT 39,17
15430  PLOT 32,16: PLOT 31,15: PLOT 30,14: PLOT 29,13: PLOT 28,12: PLOT 27,11: PLOT 26,11
15440  GOSUB 1060
15441  PRINT : PRINT
15442  PRINT "YOU'VE GOT THE ENERGY BUG, ";N$;"!!!"
15445  FOR T = 1 TO 25
15450  COLOR= 0: GOSUB 15750
15460  COLOR= 15: GOSUB 16000
15464 S =  - 16336
15465  FOR Q = 1 TO 10
15466 A =  PEEK (S)
15467  NEXT Q
```

```
15470  COLOR= 0: GOSUB 16000
15480  COLOR= 15: GOSUB 15750
15490  NEXT T
15500  TEXT : HOME
15510  VTAB 10: PRINT "...AND IT'S GIVING YOU ALL THE"
15520  VTAB 12: PRINT  TAB( 12);: FLASH : PRINT "RIGHT ANSWERS";: NORMAL : PRINT "!!!"
15530  FOR T = 1 TO 5000: NEXT T
15540  GOTO 1940
15750  PLOT 22,19: PLOT 24,19
15760  PLOT 21,18: PLOT 25,18
15770  PLOT 20,17: PLOT 26,17
15780  PLOT 19,16: PLOT 27,16
15790  PLOT 18,15: PLOT 28,15
15800  PLOT 17,14: PLOT 29,14
15810  PLOT 16,13: PLOT 30,13
15820  PLOT 15,12: PLOT 31,12
15830  PLOT 14,11: PLOT 32,11
15840  PLOT 13,11: PLOT 33,11
15850  RETURN
16000  VLIN 11,19 AT 22: VLIN 11,19 AT 24
16010  PLOT 21,22: PLOT 25,22
16020  RETURN
16200  LET H = 1: GOTO 1090
16210  FOR PAUSE = 1 TO 1000: NEXT PAUSE
16220  PLOT 15,19: PLOT 22,19
16230  FOR PAUSE = 1 TO 200: NEXT PAUSE
16240  COLOR= 0: PLOT 15,19: PLOT 22,19
16250  COLOR= 15: PLOT 14,19: PLOT 21,19
16260 S =  - 16336
16270  FOR Q = 1 TO 25
16280 A =  PEEK (S): NEXT Q
16290  FOR PAUSE = 1 TO 500: NEXT PAUSE
16300  COLOR= 0: PLOT 14,19: PLOT 21,19
16310  COLOR= 15: PLOT 16,19: PLOT 23,19
16320  FOR Q = 1 TO 25
16330 A =  PEEK (S): NEXT Q
16340  FOR PAUSE = 1 TO 500: NEXT PAUSE
16350  COLOR= 0: PLOT 16,19: PLOT 23,19
16360  COLOR= 15: PLOT 14,19: PLOT 21,19
16370  FOR Q = 1 TO 25
16380 A =  PEEK (S): NEXT Q
16390  FOR PAUSE = 1 TO 500: NEXT PAUSE
16391  COLOR= 0: PLOT 14,19: PLOT 21,19
16392  COLOR= 15: PLOT 15,19: PLOT 22,19
16393  FOR Q = 1 TO 25
16394 A =  PEEK (S): NEXT Q
16400  VTAB 22: PRINT "DO YOU SEE WHAT I SEE???"
16410  FOR PAUSE = 1 TO 2000: NEXT PAUSE
16420  TEXT : HOME
16430  VTAB 10: PRINT  TAB( 10)"I SEE AN ENERGY..."
16440  FOR PAUSE = 1 TO 1000: NEXT PAUSE
16450  HOME : GR
16455  FOR V = 1 TO 3
16460  COLOR= 15
16470  VLIN 6,32 AT 4: VLIN 6,32 AT 5
16480  VLIN 17,31 AT 6: VLIN 15,30 AT 7: VLIN 14,28 AT 8
16490  VLIN 15,30 AT 9: VLIN 17,31 AT 10
16500  VLIN 6,32 AT 11: VLIN 6,32 AT 12
16510  VLIN 6,32 AT 15: VLIN 6,32 AT 16: VLIN 6,32 AT 17
16520  VLIN 18,20 AT 18: VLIN 18,20 AT 19: VLIN 18,20 AT 20
16530  VLIN 6,32 AT 21: VLIN 6,32 AT 22: VLIN 6,32 AT 23
16540  VLIN 6,32 AT 26: VLIN 6,32 AT 27: VLIN 6,32 AT 28
16550  HLIN 31,39 AT 6: HLIN 31,39 AT 7: HLIN 31,39 AT 8
16560  VLIN 9,11 AT 39: VLIN 9,14 AT 38: VLIN 9,17 AT 37
16570  VLIN 12,20 AT 36: VLIN 15,23 AT 35: VLIN 18,26 AT 34
16580  VLIN 21,29 AT 33: VLIN 24,29 AT 32: VLIN 27,29 AT 31
```

```
16590  HLIN 31,39 AT 30: HLIN 31,39 AT 31: HLIN 31,39 AT 32
16595  IF H = 2 THEN  GOTO 16640
16600  GR : HOME
16610  FOR PAUSE = 1 TO 100: NEXT PAUSE
16620  NEXT V
16630 H = 2: GOTO 16460
16640  FOR PAUSE = 1 TO 1000: NEXT PAUSE
16650  GOTO 1940
20000  HOME
20010  GR
20020  COLOR= 15: REM  MOVE DOT
20030 X = 1
20040 Y = 1
20050  PLOT X,Y
20060  GOSUB 23000: REM  TO PRINT INSTRUCTIONS
20070  IF X = 20 THEN  GOTO 20080
20075  IF X <  > 20 THEN  GOTO 20085
20080  IF Y = 31 THEN  GOTO 25000
20085  GET A$
20086 S =  - 16336
20087  FOR Q = 1 TO 25
20088 A =  PEEK (S)
20089  NEXT Q
20090  IF A$ = "R" THEN  GOTO 21500: REM  AT MAZE LINE THEN BEEP
20100  IF A$ 9  > "R" THEN  GOTO 20140
20110  GOSUB 21100:X = X + 1: REM  ERASE OLD, SET NEW
20120  PLOT X,Y
20130  GOTO 20300
20140  IF A$ = "L" THEN  GOTO 21600
20150  IF A$ <  > "L" THEN  GOTO 20190
20160  GOSUB 21100:X = X - 1
20170  PLOT X,Y
20180  GOTO 20300
20190  IF A$ = "U" THEN  GOTO 21700
20200  IF A$ <  > "U" THEN  GOTO 20240
20210  GOSUB 21100:Y = Y - 1
20220  PLOT X,Y
20230  GOTO 20300
20240  IF A$ = "D" THEN  GOTO 21800
20250  IF A$ <  > "D" THEN  GOTO 20085
20260  GOSUB 21100:Y = Y + 1
20270  PLOT X,Y
20280  GOTO 20300
20300  GOTO 20060
21100  COLOR= 0
21110  PLOT X,Y
21115  COLOR= 15
21120  RETURN
21500 X = X + 1
21510  LET Z =  SCRN( X,Y)
21520  IF Z = 2 THEN  GOTO 21540
21530  IF Z <  > 2 THEN X = X - 1: GOTO 20110
21540  PRINT "Ω"
21550 X = X - 1: GOTO 20120
21600 X = X - 1
21610  LET Z =  SCRN( X,Y)
21620  IF Z = 2 THEN  GOTO 21640
21630  IF Z <  > 2 THEN X = X + 1: GOTO 20160
21640  PRINT "Ω"
21650 X = X + 1: GOTO 20170
21700 Y = Y - 1
21710  LET Z =  SCRN( X,Y)
21720  IF Z = 2 THEN  GOTO 21740
21730  IF Z <  > 2 THEN Y = Y + 1: GOTO 20210
21740  PRINT "Ω"
21750 Y = Y + 1: GOTO 20220
```

```
21800 Y = Y + 1
21810  LET Z =  SCRN( X,Y)
21820  IF Z = 2 THEN  GOTO 21840
21830  IF Z <  > 2 THEN Y = Y - 1: GOTO 20260
21840  PRINT "Ω"
21850 Y = Y - 1: GOTO 20270
22000  HOME
22010  GR : COLOR= 2
22030  HLIN 0,8 AT 5: HLIN 16,20 AT 5: HLIN 28,35 AT 5
22040  HLIN 10,16 AT 10: HLIN 20,31 AT 11: HLIN 36,39 AT 11
22050  HLIN 8,12 AT 14: HLIN 24,35 AT 15
22060  HLIN 3,16 AT 17: HLIN 36,39 AT 19
22070  HLIN 0,5 AT 21: HLIN 9,13 AT 21: HLIN 16,28 AT 21
22080  HLIN 28,35 AT 23
22090  HLIN 5,22 AT 25
22100  HLIN 32,39 AT 27: HLIN 3,11 AT 29: HLIN 28,31 AT 31
22110  HLIN 0,5 AT 33: HLIN 9,15 AT 33
22120  HLIN 32,35 AT 35
22130  VLIN 0,10 AT 12: VLIN 0,5 AT 28
22140  VLIN 1,7 AT 24
22150  VLIN 5,17 AT 20: VLIN 5,8 AT 35
22160  VLIN 9,13 AT 4: VLIN 9,13 AT 16: VLIN 9,11 AT 31
22170  VLIN 14,17 AT 8
22180  VLIN 16,17 AT 24: VLIN 16,23 AT 32
22190  VLIN 18,21 AT 9: VLIN 19,21 AT 28
22200  VLIN 22,25 AT 13: VLIN 22,25 AT 22: PLOT 28,22: PLOT 28,24
22210  VLIN 25,34 AT 28: VLIN 26,28 AT 11
22215  VLIN 30,32 AT 5
22220  VLIN 31,39 AT 35
22230  VLIN 33,36 AT 9: VLIN 34,36 AT 19: PLOT 24,34
22240  VLIN 38,39 AT 29
22250  VLIN 29,33 AT 16: VLIN 29,33 AT 24: HLIN 20,24 AT 29: HLIN 16,24 AT 33
22260  COLOR= 1: PLOT 20,31: COLOR= 2
22270  HLIN 0,39 AT 0: VLIN 0,39 AT 39: HLIN 0,39 AT 39: VLIN 0,39 AT 0
22280  GOSUB 20020
23000  HOME
23010  PRINT "TO MOVE THE DOT TO THE RIGHT , TYPE 'R'"
23020  PRINT "TO MOVE IT LEFT, TYPE 'L'...TO MOVE"
23040  PRINT "IT UP, TYPE 'U'...DOWN, TYPE 'D'"
23053  RETURN
25000  TEXT : HOME
25010  VTAB 10: PRINT N$;", YOU ARE ABSOLUTELY..."
25020  VTAB 20: PRINT  TAB( 16);: FLASH : PRINT "AMAZING!!!"
25030  NORMAL : FOR PAUSE = 1 TO 3000: NEXT PAUSE
25040  GOTO 4650
26000  PRINT "Ω": FOR PAUSE = 1 TO 200: NEXT PAUSE
26010  PRINT "Ω": FOR PAUSE = 1 TO 150: NEXT PAUSE
26020  PRINT "Ω"
26030  PRINT "Ω"
26040  FOR PAUSE = 1 TO 200: NEXT PAUSE
26050  PRINT "Ω"
26060  RETURN

]
```